

Please add the following new claims 43-50:

43. The process for production according to claim 8, wherein said unsaturated fatty acids are arachidonic acid, dihomo- γ -linolenic acid, 5,8,11-eicosatrienoic acid and/or eicosapentaenoic acid.

44. The process for production according to claim 8, wherein said unsaturated fatty acid is arachidonic acid.

45. The process for production according to claim 8, wherein said unsaturated fatty acids are arachidonic acid, dihomo- γ -linolenic acid, 5,8,11-eicosatrienoic acid and/or eicosapentaenoic acid, and said *Mortierella* microorganism is *Mortierella exigua* or *Mortierella hygrophila*.

46. The process for production according to claim 8, wherein said unsaturated fatty acid is arachidonic acid, and said *Mortierella* microorganism is the species *Mortierella alpina*, *Mortierella elongata*, *Mortierella exigua* or *Mortierella hygrophila*.

47. The process for production according to claim 9, wherein said unsaturated fatty acids are arachidonic acid, dihomo- γ -linolenic acid, 5,8,11-eicosatrienoic acid and/or eicosapentaenoic acid.

48. The process for production according to claim 9, wherein said unsaturated fatty acid is arachidonic acid.

49. The process for production according to claim 9, wherein said unsaturated fatty acids are arachidonic acid, dihomo- γ -linolenic acid, 5,8,11-eicosatrienoic acid and/or eicosapentaenoic acid, and said *Mortierella* microorganism is the species *Mortierella alpina*, *Mortierella elongata*, *Mortierella exigua* or *Mortierella hydrophila*.

50. The process for production according to claim 9, wherein said unsaturated fatty acid is arachidonic acid, and said *Mortierella* microorganism is the species *Mortierella alpina*, *Mortierella elongata*, *Mortierella exigua* or *Mortierella hygrophila*.--

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